

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	51	shortcut with user adj input	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:46
L2	4	(shortcut with enabl\$5).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:47
L3	253	(shortcut).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:01
L4	752	(shortcut).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:05
L5	215	3 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:48
L6	10	5 and context same shortcut	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:49
L7	4	6 and query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:50
L8	2	5 and query with record	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:50
L9	2	3 and query with record	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:51

EAST Search History

L10	2	4 and query with record	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:51
L11	7	3 and (context).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:51
L12	2	11 and query with record	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:52
L13	3	11 and query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:51
L14	2	11 and (search\$6 or locate\$1 or quer\$6) with record	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:52
L15	9	4 and (search\$6 or locate\$1 or quer\$6) with record	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:54
L16	45	(creat\$6 or build\$5 or generat\$7) adj3 (quer\$6 with context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:57
L17	21	16 and SQL	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:58
L18	19	17 and user adj interface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:00
L19	4	18 and (shortcut)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:04

EAST Search History

L20	5	context adj field adj name	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:05
L21	82	context with field adj name	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:05
L22	2	21 and (shortcut).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:05
L23	2	21 and (shortcut)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:07
L24	115	quer\$6 with context with record	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:10
L25	3	quer\$6 same context same record same shortcut	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 15:11

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	432	context adj aware	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:35
L2	30	1 and (shortcut or keystroke)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:27
L3	6	1 and (shortcut and keystroke)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:01
L4	1	1 and (shortcut and keystroke) with motion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:01
L5	2	1 and (shortcut or keystroke) with motion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:12
L6	177	((stylus adj motion) or (graffiti adj shortcut))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:03
L7	32	6 and context	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:03
L8	0	7 and select and clause	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:04
L9	3	7 and select with query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:06

EAST Search History

L10	16	7 and query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:06
L11	18	6 and query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:11
L12	160	6 not (international adj business). as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:12
L13	18	12 and (shortcut or keystroke)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:14
L14	0	12 and (shortcut and keystroke)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:35
L15	1	12 and (shortcut)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:36
L16	96	(shortcut same keystroke)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:14
L17	51	(shortcut same keystroke) and context	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:20
L18	16	17 and user adj interface same context	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:27
L19	163	shortcut with field	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 12:58

EAST Search History

L20	11	shortcut same field adj name	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:28
L21	40	shortcut and ((right and left) adj (arrow adj key))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:29
L22	22	21 and context	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:24
L23	1	shortcut and (((right and left) adj (arrow adj key)) with context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:29
L24	1	shortcut and (((right and left) adj (arrow adj key)) same context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:28
L25	22	shortcut and (((right and left) adj (arrow adj key)) and context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:28
L26	1	25 and shortcut same (field adj name)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:29
L27	1	shortcut same ((right and left) adj (arrow adj key))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:29
L28	1	1 and shortcut and (((right and left) adj (arrow adj key)) with context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:29
L29	1	1 and shortcut and (((right and left) adj (arrow adj key)) and context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:30

EAST Search History

L30	22	shortcut and (((right and left) adj (arrow adj key)) and context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:33
L31	1	select and "from" and "where"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:33
L32	0	select with "from" with "where"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:33
L33	2	"from" with "where"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:34
L34	9271	select adj2 (clause or statement or command)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:34
L35	794	select adj2 (clause or statement or command) with query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:34
L36	0	35 and context adj aware	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:35
L37	0	35 and (user or keystroke or softkey) adj2 motion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:36
L38	3721	(user or keystroke or softkey) adj2 motion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:45
L39	43	38 and (shortcut)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:43

EAST Search History

L40	818	shortcut and context and (user adj interface) and query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 13:46
L41	171	40 and (keystroke or hotkey or (hot adj key) or graffiti or stylus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:08
L42	6401	outlook	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:07
L43	188	42 and shortcut	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:07
L44	53	43 and (keystroke or hotkey or (hot adj key) or graffiti or stylus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:10
L45	102	43 and address and location and contact	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:10
L46	47	43 and (keystroke or graffiti or stylus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:11
L47	30	45 and (keystroke or graffiti or stylus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:14
L48	20	45 and (keystroke or graffiti or stylus) and query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:17
L49	7	48 and information adj2 database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 14:17



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Relevance scale ☐ ☐ ☐ ☐ ☐1 [Short papers: Inducing shortcuts on a mobile phone interface](#)

Robert Bridle, Eric McCreath

January 2006 **Proceedings of the 11th international conference on Intelligent user interfaces IUI '06**

Publisher: ACM Press

Full text available: [pdf\(510.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Due to size restrictions, mobile phone user interfaces are often difficult to use[8]. In this short paper, we investigated inducing shortcuts to replace the sequence of actions required to complete common tasks on a mobile phone. In particular, we used mobile phone interaction data to evaluate several methods for inducing shortcuts. We considered the balance between maximising interface efficiency and shortcuts that remained stable and hence predictable.

Keywords: adaptive user-interface, mobile phone interfaces, user oriented machine learning

2 [Interaction in the real world: Customizable physical interfaces for interacting with conventional applications](#)

Saul Greenberg, Michael Boyle

October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Publisher: ACM Press


Full text available: [pdf\(767.09 KB\)](#)[mov\(370.00](#)[bytes\)](#) [wmv](#)[\(370.00 bytes\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

When using today's productivity applications, people rely heavily on graphical controls (GUI widgets) as the way to invoke application functions and to obtain feedback. Yet we all know that certain controls can be difficult or tedious to find and use. As an alternative, a *customizable physical interface* lets an end-user easily bind a modest number of physical controls to similar graphical counterparts. The user can then use the physical control to invoke the corresponding graphical contro ...


3 [Data Access and Knowledge Management: Advanced grouping and aggregation for data integration](#)


-  Eike Schallehn, Kai-Uwe Sattler, Gunter Saake
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  pdf(570.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


New applications from the areas of analytical data processing and data integration require powerful features to condense and reconcile available data. As outlined in [1], the general concept of grouping and aggregation appears to be a fitting paradigm for a number of these issues, but in its common form of equality based groups or with current extensions like simple user-defined functions to derive group-by values on a per tuple basis and restricted aggregate functions a number of problems remain ...

- 4 [Mobile services and technology track: SmartRestaurant: mobile payments in context-aware environment](#) 

 Janne Lukkari, Jani Korhonen, Timo Ojala


March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**


Publisher: ACM Press

Full text available:  pdf(408.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobility, context-awareness and payment combined provide a customer with a completely new setting of consuming services at any time and any place. We introduce SmartRestaurant service, which allows customers to use mobile devices for ordering and paying lunches from a nearby campus restaurant beforehand. Further, SmartRestaurant provides the restaurant with means of adjusting the sales with production capacity and prior knowledge of upcoming orders. We present a user evaluation of the system in ...


Keywords: B2C, context-aware, indirect mCommerce, mobile payment

- 5 [Industrial: Context management for end user development of context-aware applications](#) 

 Panu Korpipää, Esko-Juhani Malm, Ilkka Salminen, Tapani Rantakokko, Vesa Kyllönen, Ilkka Käsälä


May 2005 **Proceedings of the 6th international conference on Mobile data management MEM '05**

Publisher: ACM Press

Full text available:  pdf(114.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


Mobile device context-aware features should be closely coupled to the end user demands. This is achieved by enabling end user development of context-aware applications. A context framework and a tool are presented for facilitating easy customization of context-aware features into existing mobile terminal applications. A blackboard-based context framework for mobile devices is extended with a component for handling user-defined context-action rules, and a component for activating application actions ...

Keywords: application control, context framework, context representation, customization tool, mobile application, personalization



- 6 [Short papers: Spheres of role in context-awareness](#) 

Ivo Widjaja, Sandrine Balbo



November 2005 **Proceedings of the 19th conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer-human interaction: citizens online: considerations for today and the**

future OZCHI '05**Publisher:** Computer-Human Interaction Special Interest Group (CHISIG) of AustraliaFull text available:  [pdf\(219.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



This paper outlines a conceptual view in characterising context awareness by its roles in user interaction within a context-aware application. We propose three high-level spheres of role based on the extent of how the context is used to influence the interaction, namely **interpretation**, **representation**, and **effectuation**. The challenges in performing each of these roles are briefly discussed. Our perspective of looking at context-awareness provides alternative approach for choosing le ...

Keywords: context-awareness, context-sensitive, spheres of roles**7 Mobile interfaces: Sensing and visualizing spatial relations of mobile devices**  Gerd Kortuem, Christian Kray, Hans GellersenOctober 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05****Publisher:** ACM PressFull text available:  [pdf\(816.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Location information can be used to enhance interaction with mobile devices. While many location systems require instrumentation of the environment, we present a system that allows devices to measure their spatial relations in a true peer-to-peer fashion. The system is based on custom sensor hardware implemented as USB dongle, and computes spatial relations in real-time. In extension of this system we propose a set of spatialized widgets for incorporation of spatial relations in the user interfa ...

Keywords: context-aware computing, location systems, mobile computing, spatial relations, spatially-aware interfaces**8 The context toolkit: aiding the development of context-enabled applications**  Daniel Salber, Anind K. Dey, Gregory D. AbowdMay 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit****Publisher:** ACM PressFull text available:  [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Context-enabled applications are just emerging and promise richer interaction by taking environmental context into account. However, they are difficult to build due to their distributed nature and the use of unconventional sensors. The concepts of toolkits and widget libraries in graphical user interfaces has been tremendously successtil, allowing programmers to leverage off existing building blocks to build interactive systems more easily. We introduce the concept of context widgets ...

Keywords: applications development, context-eabled or context-aware computing, toolkits, ubiquitous computing, widgets**9 Capturing summarizability with integrity constraints in OLAP**  Carlos A. Hurtado, Claudio Gutierrez, Alberto O. MendelzonSeptember 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(710.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In multidimensional data models intended for online analytic processing (OLAP), data are

viewed as points in a multidimensional space. Each dimension has structure, described by a directed graph of categories, a set of members for each category, and a child/parent relation between members. An important application of this structure is to use it to infer summarizability, that is, whether an aggregate view defined for some category can be correctly derived from a set of precomputed views defined f ...

Keywords: OLAP, data warehousing, integrity constraints, query-optimization, summarizability


10 [Personal assistants 2: Fewer clicks and less frustration: reducing the cost of reaching the right folder](#) 



Xinlong Bao, Jonathan L. Herlocker, Thomas G. Dietterich

January 2006 **Proceedings of the 11th international conference on Intelligent user interfaces IUI '06**

Publisher: ACM Press

Full text available:  [pdf\(328.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Helping computer users rapidly locate files in their folder hierarchies has become an important research topic in today's intelligent user interface design. This paper reports on FolderPredictor, a software system that can reduce the cost of locating files in hierarchical folders. FolderPredictor applies a cost-sensitive prediction algorithm to the user's previous file access information to predict the next folder that will be accessed. Experimental results show that, on average, FolderPredictor ...

Keywords: activities, directories, folders, intelligent user interfaces, machine learning, prediction, recommendation, shortcuts, tasks, user interface


11 [Modeling user behavior: Predicting human interruptibility with sensors: a Wizard of Oz feasibility study](#) 



Scott Hudson, James Fogarty, Christopher Atkeson, Daniel Avrahami, Jodi Forlizzi, Sara Kiesler, Johnny Lee, Jie Yang

April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available:  [pdf\(727.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A person seeking someone else's attention is normally able to quickly assess how interruptible they are. This assessment allows for behavior we perceive as natural, socially appropriate, or simply polite. On the other hand, today's computer systems are almost entirely oblivious to the human world they operate in, and typically have no way to take into account the interruptibility of the user. This paper presents a Wizard of Oz study exploring whether, and how, robust sensor-based predictions of ...

Keywords: context-aware computing, machine learning, sensor-based interfaces, situationally appropriate interaction

12 [Extending to multidimensional interfaces: Observing and adapting user behavior in navigational 3D interfaces](#) 



Augusto Celentano, Fabio Pittarello

May 2004 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

Full text available:  [pdf\(253.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In a navigation-oriented interaction paradigm, such as desktop, mixed and augmented virtual reality, recognizing the user needs is a valuable improvement, provided that the system is able to correctly anticipate the user actions. Methodologies for adapting both navigation and content allow the user to interact with a customized version of the 3D world, lessening the cognitive load needed for accomplishing tasks such as finding places and objects, and acting on virtual devices. This work discusses ...

13 Stateful distributed interposition



John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(833.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex service ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

14 Multimodal architectures and frameworks: SmartKom: adaptive and flexible



multimodal access to multiple applications

Norbert Reithinger, Jan Alexandersson, Tilman Becker, Anselm Blocher, Ralf Engel, Markus Löckelt, Jochen Müller, Norbert Pfleger, Peter Poller, Michael Streit, Valentin Tschernomas
November 2003 **Proceedings of the 5th international conference on Multimodal**

interfaces

Publisher: ACM Press

Full text available: pdf(660.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The development of an intelligent user interface that supports multimodal access to multiple applications is a challenging task. In this paper we present a generic multimodal interface system where the user interacts with an anthropomorphic personalized interface agent using speech and natural gestures. The knowledge-based and uniform approach of SmartKom enables us to realize a comprehensive system that understands imprecise, ambiguous, or incomplete multimodal input and generates coordinated, ...

Keywords: intelligent multimodal interfaces, multiple applications, system description

15 Interaction: Adaptive interaction in Web3D virtual worlds



Augusto Celentano, Michele Nodari

April 2004 **Proceedings of the ninth international conference on 3D Web technology**

Publisher: ACM Press


Full text available: pdf(395.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In recent years a number of techniques have been studied for augmenting the ease of use of 3D worlds: methodologies for adapting both navigation and content allow a user to interact with a customized 3D world; adaptable navigation paradigms offer parallel modalities for different classes of users. In both cases the goal is to reduce the cognitive load needed for interaction. This work focuses on interaction adaptivity, trying to anticipate the user behaviors by monitoring their interaction pattern ...


Keywords: 3D worlds, VRML, adaptivity, agents, interaction

- 16 New interaction devices: Implementing touchme paradigm with a mobile phone 
Lauri Pohjanheimo, Heikki Keränen, Heikki Ailisto
October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient intelligence: innovative context-aware services: usages and technologies sOc-EUSAI '05**


Publisher: ACM Press

Full text available:  pdf(186.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In earlier papers, the concept of Physical Browsing has been suggested as a natural way to improve the usability of mobile devices and to enable interaction with digital services associated with real world objects in the environment. Since mobile phones are very widely used, it offers a good platform for pervasive applications. In this paper, we realize the Physical Browsing concept using an RFID-reader. With the reader attached to the mobile phone, we invoke digital services embedded in the env ...


- 17 Section 03: tools: Virtual video prototyping of pervasive healthcare systems 
Jakob Bardram, Claus Bossen, Andreas Lykke-Olesen, Rune Nielsen, Kim Halskov Madsen
June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Publisher: ACM Press


Full text available:  pdf(288.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Virtual studio technology enables the mixing of physical and digital 3D objects and thus expands the way of representing design ideas in terms of *virtual video prototypes*, which offers new possibilities for designers by combining elements of prototypes, mock-ups, scenarios, and conventional video. In this article we report our initial experience in the domain of pervasive healthcare with producing virtual video prototypes and using them in a design workshop. Our experience has been predom ...

Keywords: design, pervasive computing, pervasive healthcare, prototyping, video, virtual studio


- 18 Live documents with contextual, data-driven information components 
Anke Weber, Holger M. Kienle, Hausi A. Müller
October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Publisher: ACM Press

Full text available:  pdf(627.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce the notion of a live document and we describe our concept of live documents with contextual, data driven information components. The dynamic and interactive features of live documents provide a consistent data source for multimedia presentations targeted to various audiences and multiple platforms. Therefore, they contribute to the solution of key challenges in single sourcing and repurposing. We motivate the use of live documents with sample scenarios from the field of systems docu ...

Keywords: Microsoft Office, live documents, repurposing, reverse engineering, scalable vector graphics, single sourcing, software engineering, systems documentation

- 19 Interaction techniques: Comparing two one-handed access methods on a PDA 



Lei Dong, Carolyn Watters, Jack Duffy

September 2005 **Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05****Publisher:** ACM PressFull text available: pdf(280.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Users of mobile devices often need to use those devices in contexts which leave only one hand available for manipulating the device, such as holding another device or manual, walking or operating some machinery. In this paper we discuss the results of a comparison of the effectiveness, efficiency and preference users have for map navigation tasks on a PDA, where they are restricted to one handed use. One method uses a tilt sensor and touch screen and the other uses multifunction buttons and the t ...

Keywords: PDA, handheld device, input method, map navigation, one-handed, tilt**20** [The trouble with login: on usability and computer security in ubiquitous computing](#)

E. Bardram

November 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 6**Publisher:** Springer-VerlagFull text available: pdf(439.96 KB) Additional Information: [full citation](#), [abstract](#)

Logging in by typing usernames and passwords is by far the most common way to access modern computer systems. However, such contemporary user authentication mechanisms are inappropriate in a ubiquitous computing environment, where users constantly are accessing a wide range of different devices. This paper introduces new concepts for user authentication in ubiquitous computing, such as the notion of *proximity-based user authentication* and *silent login*. The design of these new mecha ...

Keywords: Activity-based computing (ABC), Computer-supported cooperative work (CSCW), Electronic patient record (EPR), Healthcare, Hospitals, Login, Ubiquitous computing, User authentication

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1 [Data Access and Knowledge Management: Advanced grouping and aggregation for data integration](#)



Eike Schallehn, Kai-Uwe Sattler, Gunter Saake

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(570.54 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New applications from the areas of analytical data processing and data integration require powerful features to condense and reconcile available data. As outlined in [1], the general concept of grouping and aggregation appears to be a fitting paradigm for a number of these issues, but in its common form of equality based groups or with current extensions like simple user-defined functions to derive group-by values on a per tuple basis and restricted aggregate functions a number of problems remain ...

2 [Mobile services and technology track: SmartRestaurant: mobile payments in context-aware environment](#)



Janne Lukkari, Jani Korhonen, Timo Ojala

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available: [pdf\(408.85 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobility, context-awareness and payment combined provide a customer with a completely new setting of consuming services at any time and any place. We introduce SmartRestaurant service, which allows customers to use mobile devices for ordering and paying lunches from a nearby campus restaurant beforehand. Further, SmartRestaurant provides the restaurant with means of adjusting the sales with production capacity and prior knowledge of upcoming orders. We present a user evaluation of the system in ...

Keywords: B2C, context-aware, indirect mCommerce, mobile payment


3 [Capturing summarizability with integrity constraints in OLAP](#)



Carlos A. Hurtado, Claudio Gutierrez, Alberto O. Mendelzon

September 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 3


Publisher: ACM Press

Full text available:  [pdf\(710.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In multidimensional data models intended for online analytic processing (OLAP), data are viewed as points in a multidimensional space. Each dimension has structure, described by a directed graph of categories, a set of members for each category, and a child/parent relation between members. An important application of this structure is to use it to infer summarizability, that is, whether an aggregate view defined for some category can be correctly derived from a set of precomputed views defined f ...


Keywords: OLAP, data warehousing, integrity constraints, query-optimization, summarizability

4 [Formal models-1: Probabilistic model for contextual retrieval](#)

 Ji-Rong Wen, Ni Lao, Wei-Ying Ma

July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**


Publisher: ACM Press

Full text available:  [pdf\(200.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Contextual retrieval is a critical technique for facilitating many important applications such as mobile search, personalized search, PC troubleshooting, etc. Despite of its importance, there is no comprehensive retrieval model to describe the contextual retrieval process. We observed that incompatible context, noisy context and incomplete query are several important issues commonly existing in contextual retrieval applications. However, these issues have not been previously explored and discuss ...


Keywords: contextual retrieval, probabilistic model, query expansion, query log

5 [The context toolkit: aiding the development of context-enabled applications](#)

 Daniel Salber, Anind K. Dey, Gregory D. Abowd

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**


Publisher: ACM Press

Full text available:  [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Context-enabled applications are just emerging and promise richer interaction by taking environmental context into account. However, they are difficult to build due to their distributed nature and the use of unconventional sensors. The concepts of toolkits and widget libraries in graphical user interfaces has been tremendously successtil, allowing programmers to leverage off existing building blocks to build interactive systems more easily. We introduce the concept of context widgets ...

Keywords: applications development, context-eabled or context-aware computing, toolkits, ubiquitous computing, widgets

6 [Mobile interfaces: Sensing and visualizing spatial relations of mobile devices](#)

 Gerd Kortuem, Christian Kray, Hans Gellersen

October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**

Publisher: ACM Press

Full text available:  [pdf\(816.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Location information can be used to enhance interaction with mobile devices. While many location systems require instrumentation of the environment, we present a system that

allows devices to measure their spatial relations in a true peer-to-peer fashion. The system is based on custom sensor hardware implemented as USB dongle, and computes spatial relations in real-time. In extension of this system we propose a set of spatialized widgets for incorporation of spatial relations in the user interfa ...

Keywords: context-aware computing, location systems, mobile computing, spatial relations, spatially-aware interfaces

7 Personal assistants 2: Fewer clicks and less frustration: reducing the cost of reaching the right folder 



Xinlong Bao, Jonathan L. Herlocker, Thomas G. Dietterich

January 2006 **Proceedings of the 11th international conference on Intelligent user interfaces IUI '06**

Publisher: ACM Press

Full text available:  [pdf\(328.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Helping computer users rapidly locate files in their folder hierarchies has become an important research topic in today's intelligent user interface design. This paper reports on FolderPredictor, a software system that can reduce the cost of locating files in hierarchical folders. FolderPredictor applies a cost-sensitive prediction algorithm to the user's previous file access information to predict the next folder that will be accessed. Experimental results show that, on average, FolderPredictor ...

Keywords: activities, directories, folders, intelligent user interfaces, machine learning, prediction, recommendation, shortcuts, tasks, user interface


8 Stateful distributed interposition 



John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(833.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

9 Multimodal architectures and frameworks: SmartKom: adaptive and flexible 




multimodal access to multiple applications

Norbert Reithinger, Jan Alexandersson, Tilman Becker, Anselm Blocher, Ralf Engel, Markus Löckelt, Jochen Müller, Norbert Pflieger, Peter Poller, Michael Streit, Valentin Tschernomas

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**

Publisher: ACM Press

Full text available:  [pdf\(660.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The development of an intelligent user interface that supports multimodal access to multiple applications is a challenging task. In this paper we present a generic multimodal

interface system where the user interacts with an anthropomorphic personalized interface agent using speech and natural gestures. The knowledge-based and uniform approach of SmartKom enables us to realize a comprehensive system that understands imprecise, ambiguous, or incomplete multimodal input and generates coordinated, ...

Keywords: intelligent multimodal interfaces, multiple applications, system description

10 Interaction in the real world: Customizable physical interfaces for interacting with conventional applications



Saul Greenberg, Michael Boyle

October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(767.09 KB)

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bytes) wrtv

(370.00 bytes)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

When using today's productivity applications, people rely heavily on graphical controls (GUI widgets) as the way to invoke application functions and to obtain feedback. Yet we all know that certain controls can be difficult or tedious to find and use. As an alternative, a *customizable physical interface* lets an end-user easily bind a modest number of physical controls to similar graphical counterparts. The user can then use the physical control to invoke the corresponding graphical contro ...

11 New interaction devices: Implementing touchme paradigm with a mobile phone



Lauri Pohjanheimo, Heikki Keränen, Heikki Ailisto

October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient intelligence: innovative context-aware services: usages and technologies sOc-EUSAI '05**

Publisher: ACM Press

Full text available: pdf(186.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In earlier papers, the concept of Physical Browsing has been suggested as a natural way to improve the usability of mobile devices and to enable interaction with digital services associated with real world objects in the environment. Since mobile phones are very widely used, it offers a good platform for pervasive applications. In this paper, we realize the Physical Browsing concept using an RFID-reader. With the reader attached to the mobile phone, we invoke digital services embedded in the env ...

12 Hypermedia semantics: Which semantic web?



Catherine C. Marshall, Frank M. Shipman

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Publisher: ACM Press

Full text available: pdf(329.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Through scenarios in the popular press and technical papers in the research literature, the promise of the Semantic Web has raised a number of different expectations. These expectations can be traced to three different perspectives on the Semantic Web. The Semantic Web is portrayed as: (1) a universal library, to be readily accessed and used by humans in a variety of information use contexts; (2) the backdrop for the work of computational agents completing sophisticated activities on behalf of t ...





Keywords: digital libraries, hypertext, information systems, knowledge acquisition,

knowledge representation, semantic web

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